

Azure VM Infrastructure

Here's a typical infrastructure that can be used to host the iRely application in Microsoft Azure.

Virtual Machine

- **App Server**
 - **Operating System**
 - Windows Server 2022
 - **Size**
 - 8 vCPUs, 64 GB memory (e.g. E8as_v4)
 - **OS Disk**
 - Premium SSD - 128 GB
 - **Data Disk**
 - Premium SSD - 512 GB
- **Database Server**
 - **Operating System**
 - Windows Server 2022
 - **Database**
 - SQL Server 2022 Standard Edition for production
 - [SQL Server 2022 Developer Edition](#) is free and can be used for testing
 - **Size**
 - 8 vCPUs, 64 GB memory (e.g. E8as_v4)
 - **OS Disk**
 - Premium SSD - 128 GB
 - **Data Disk**
 - Premium SSD - 512 GB (or larger based on data)

Networking

- **Resource Group**
 - Organize and manage your Azure resources.
- **Virtual Network**
 - Create a virtual network to isolate your environment.
- **Network Security Group (NSG)**
 - Configure rules to control inbound and outbound traffic, protecting the VMs.
- **Network Interface (NIC)**
 - The interconnection between a virtual machine and a virtual network.
- **Public IP Address**
 - Assign if direct external access is required.

Other Considerations

- **Premium SSD**
 - Use for OS and data disks to ensure high performance and low latency.
- **Azure Backup**
 - Enable for regular backups of your VMs and data.
- **Azure Site Recovery (ASR)**
 - ASR is a best-in-class disaster recovery solution hosted in Azure
 - A near-constant data replication process makes sure copies are in sync
- **VPN**
 - Virtual Private Network is optional.
- **End Point Protection (EDR)**
 - Optionally install a good EDR solutions like SentinelOne.